MANAGENG DROUGHU

IN THE SOUTHERN PLAINS

February 9, 2012

Webinar Format

- 2nd and 4th Thursdays of each month at 11:00 a.m. Central Time
 - 4th Thursday will be a drought status update & outlook only (no focus topic)
- Overview of regional drought conditions and outlook for next several weeks to months
 - led by the Drought Monitor authors
- Discussion Topic
 - Alternating between an impact type (wildfire, agriculture) and a resource (monitoring tools, assistance programs)
- Comments & Updates from State Climatologists
- Open-ended time for questions and comments
- Total Time Commitment: 45 minutes for presentations, as much time as needed for discussion
- Past webinars, summaries, and Federal/State Assistance links posted on the U.S. Drought Monitor, http://www.drought.gov in the Southern Plains Region. Webinars posted on Youtube: http://www.youtube.com/user/SCIPP01

Regional Drought Monitor Update

Brian Fuchs, Climatologist

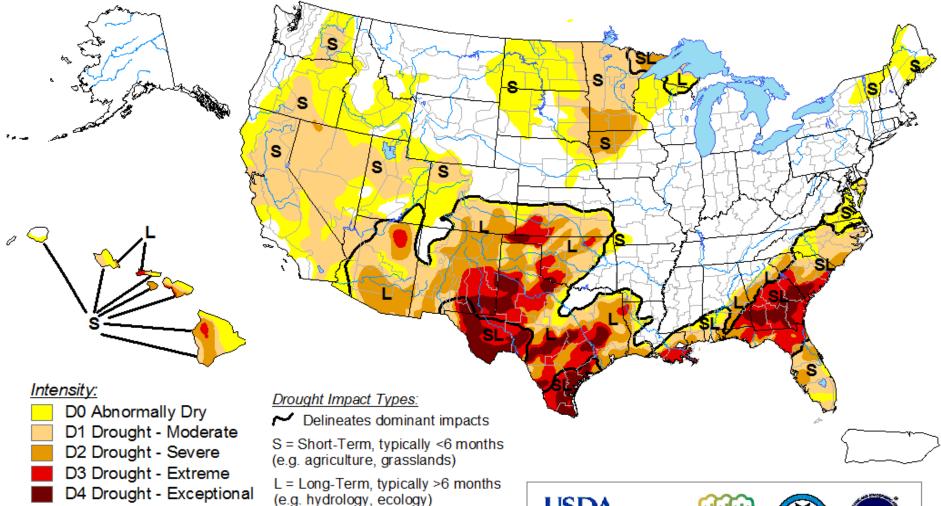
National Drought Mitigation Center School of Natural Resources University of Nebraska-Lincoln



U.S. Drought Monitor

February 7, 2012

Valid 7 a.m. EST



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

http://droughtmonitor.unl.edu/









Released Thursday, February 9, 2012 Author: Rich Tinker, NOAA/NWS/NCEP/CPC

U.S. Drought Monitor

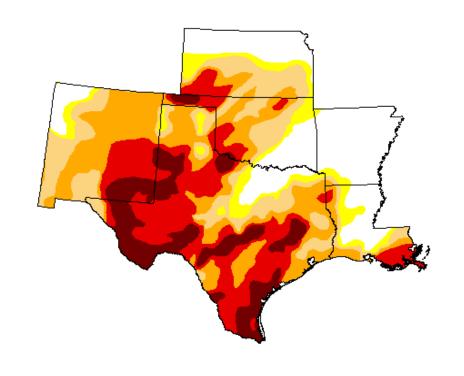
February 7, 2012

Valid 7 a.m. EST

South Central United States

Drought Conditions (Percent Area)

	None	D0 - D4	D1 - D4	D2 - D4	D3 - D4	D4
Current	21.93	78.07	70.74	53.65	31.94	11.58
Last Week (1/31/2012)	20.01	79.99	72.33	56.65	35.51	13.34
3 Months Ago (11/8/2011)	3.40	96.60	92.67	81.48	66.44	41.01
1 Year Ago (2/1/2011)	12.02	87.98	57.19	29.04	5.15	0.00



Intensity:



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forcast statements.

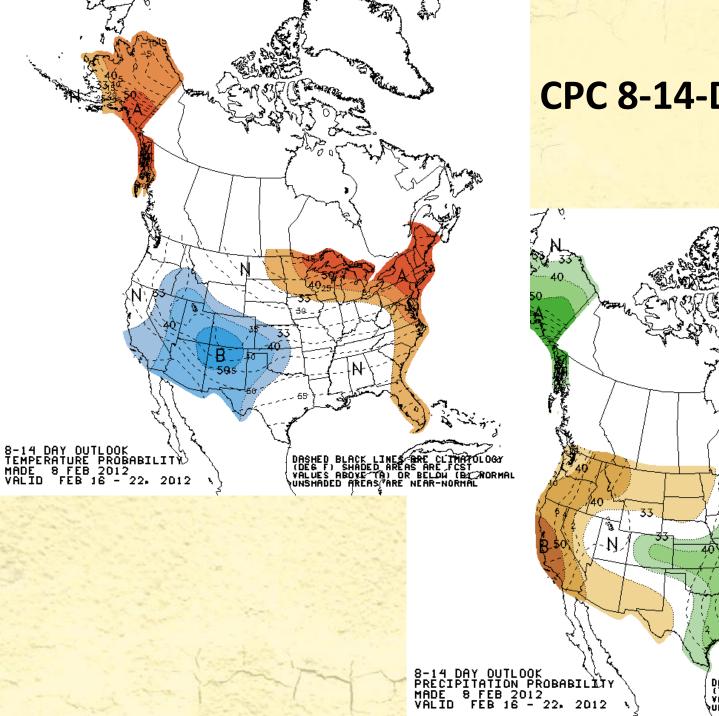




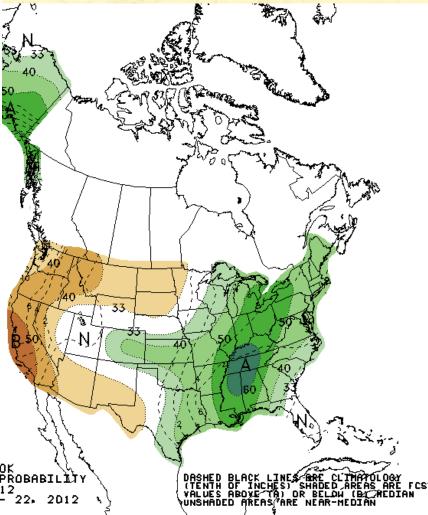


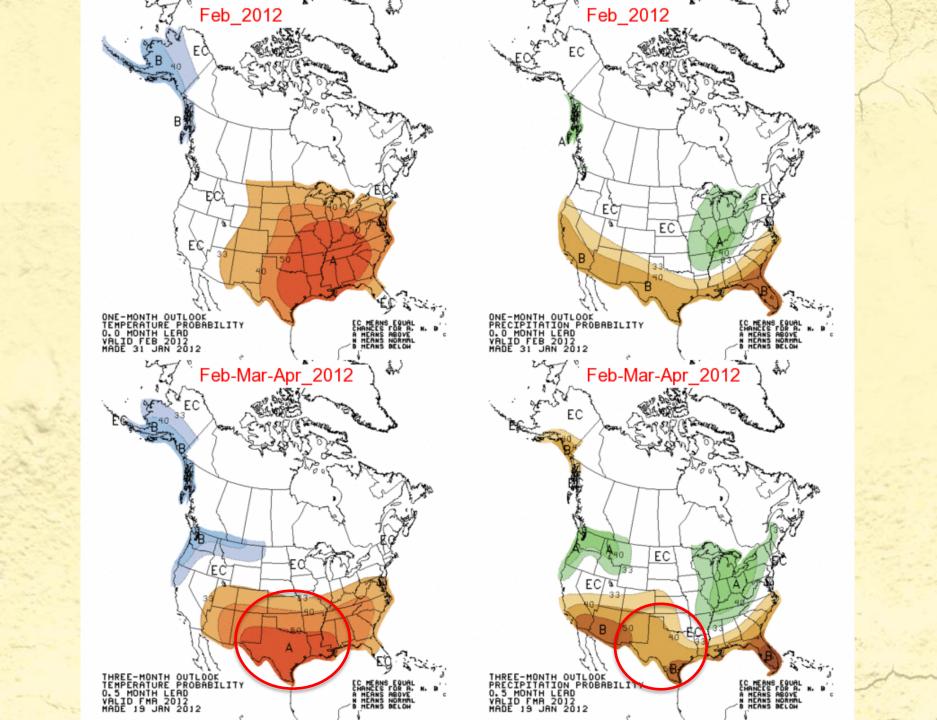


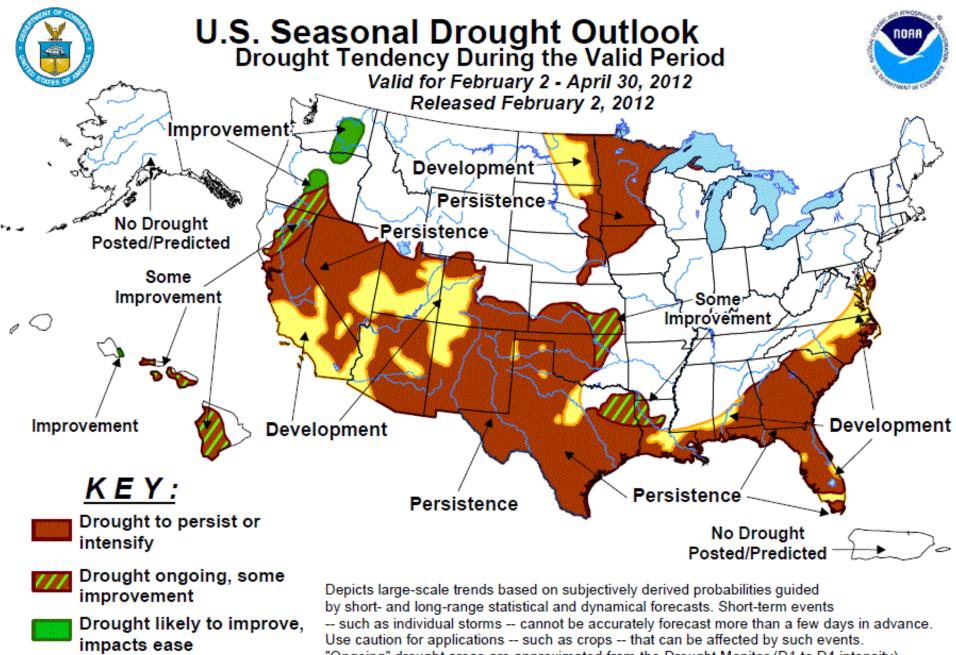
HPC 5-Day Outlook 24.00 21.00 18.00 -15.00 -12.00 -10.00 -8.00 -6.00 -5.00 -4.00 -3.00 -2.50



CPC 8-14-Day Outlooks







Featured USDM Product

Did you know.....

There are several products available forecasting fire danger and potential?

National | NICC Home | About Us | Site Disclaimer | Site Map | Contact Us

INCIDENT INFORMATION

Incident Management Situation Report

National Fire News

All Hazard Incidents

PREDICTIVE SERVICES

Intelligence

Weather

Fuels/Fire Danger

Outlook

National Predictiv

Subcommit

Link

LOGISTICS/DISPATCH

Aviation

Crews

Equipment/Supplies

Overhea

Reference Materials

ADMINISTRATIVE

National Multi-Agency Coordinating Group Policy and Reports Incident Business Management Safety Management Training



OUTLOOKS

NATIONAL SIGNIFICANT FIRE POTENTIAL OUTLOOKS

This product provides a monthly outlook and 3-month seasonal trend forecast of significant fire potential for the U.S. Outlook map images (jpgs) are embedded and linked in the document

National Wildland Significant Fire Potential Outlook (issued the first business day each month). Executive summary.

NATIONAL AND NORTH AMERICAN SEASONAL ASSESSMENT WORKSHOP REPORTS

Seasonal assessment workshops are held each year to develop comprehensive seasonal fire potential outlooks for the Eastern U.S., Western U.S. (including Alaska), and North America. Workshop attendees include intelligence specialists, meteorologists, climatologists, fire behavior analysts, fuels specialists, and representatives from Canada and Mexico.

The reports linked below are the result of this effort;

February 2012: National Seasonal Assessment Workshop Report - EAST: Eastern, Southern & Southwest Areas

May 2011: National Seasonal Assessment Workshop Report - WEST: Western States & Alaska

May 2011: North American Seasonal Assessment Map

Geographic Area Outlooks					
	Daily	7 Day Fire Potential	Multi-Media Briefings	Monthly	Seasonal
Each Geographic Area Predicti Geographic Area are linked bel		oduces fire weather, fire danger, an	d fire potential reports. Pr	oducts currently	available from each
Alaska	Daily	7 Day Fire Potential	Briefing	Monthly	Seasonal
Eastern		7 Day Fire Potential	Briefing	Monthly	Seasonal
Eastern Great Basin	Daily	7 Day Fire Potential		Monthly	Seasonal
Northern California	Daily	7 Day Fire Potential		Monthly	Seasonal
Northern Rockies	Daily	7 Day Fire Potential	Briefing	Monthly	Seasonal
Northwest	•	7 Day Fire Potential	_	Monthly	Seasonal
Rocky Mountain	Day 1 Day 2	7 Day Fire Potential	Briefing	Monthly	Seasonal
Southern	Daily	7 Day Fire Potential	Briefing	Monthly	Seasonal
Southwest	Day 1 Day 2	7 Day Fire Potential	Briefing	Monthly	Seasonal
Southern California	Daily	7 Day Fire Potential	Briefing	Monthly	Seasonal

http://www.predictiveservices.nifc.gov/outlooks/outlooks.htm



+ Current Hazards

+ Current Conditions

+ Drought/Precip

+ Other Agencies

+ Fire Situation

+ Forecasts

+ Outlooks

+ Fuels + Air Quality

+ Admin

+ GACCs

National Weather Service

Fire Weather

http://radar.srh.noaa.gov/fire/



NWS Home

NWS News

Search for:

NWS All NOAA Go

EXPERIMENTAL... EXPERIMENTAL... EXPERIMENTAL... EXPERIMENTAL... EXPERIMENTAL... EXPERIMENTAL... EXPERIMENTAL... **Fire Weather News**

- Click here to take the 2011 NWS Customer Satisfaction Survey, which includes the opportunity to provide feedback on NWS fire weather services.
- . Click here to learn more about this site's capabilities. Information about this experimental product can be found here. We also encourage your comments or suggestions for improvements using the electronic survey provided.
- The general relationship between NWS and the interagency fire management community is set forth in the National Interagency Agreement for Meteorological and Other Technical Services



'Enter Location' 125 South State Street Salt Lake City, UT City Modesto, CA ZIP Code 83204 County Valley County, MT Lat/Lon 42.86 N, 112.41 W

Misc. Grand Canyon

Get info in KML format		
Current Warning Products	KML	
Large Incidents	KML	
Spot Forecast Requests	KML	
Day-1 Precip. Forecast	KML	
SPC Fire Weather Outlooks	KML	
IMET Locations	KML	



Today's Outlook

Tomorrow's Outlook

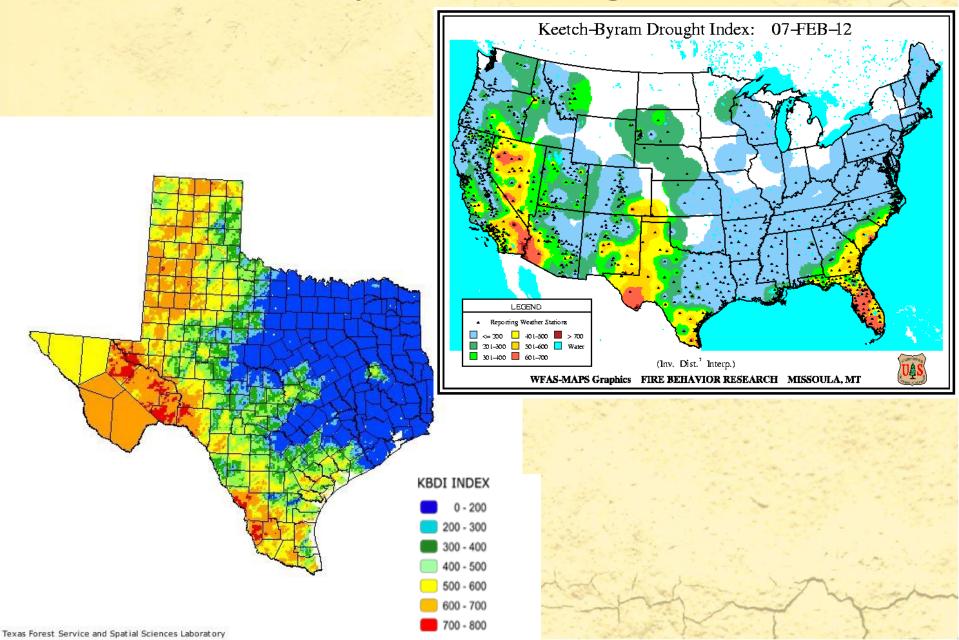
Day 3-8 Outlook

Storm Prediction Center

http://www.spc.noaa.gov/products/fire_wx/

Site Map Organization News **Fire Weather Outlooks** Updated: Wed Feb 8 16:39:03 UTC 2012 (2h 45m ago) Current Fire Weather Outlooks (Product Info) Current Day 1 Fire Weather Outlook Forecaster: GARNER CRITICAL Issued: 081636Z 10 Valid: 081700Z - 091200Z Forecast Risk of Fire Weather: No Critical Areas Current Day 2 Fire Weather Outlook SEE TEXT Forecaster: GARNER Issued: 081637Z Valid: 091200Z - 101200Z Forecast Risk of Fire Weather: No Critical Areas SPC DAY 2 FIRE WX OUTLOOK ISSUED: 0906Z 01/14/2012 Day 3-8 Fire Weather Outlooks (Product Info) VALID: 15/1200Z-16/1200Z Fire Weather Outlook Legend: FORECASTER: LEITMAN Critical Extremely Critical Day 3-8 Fire Weather Outlook NOAA/NWS Storm Prediction Center, Norman, Oklahoma Dry TSTM Forecaster: GARNER Issued: 072026Z Valid: 09/1200Z-15/1200Z Note: The day 3-8 fire weather outlooks became operational June 12, 2007. From April 19, 2011 to November 30, 2011, SPC will issue Experimental Probabilistic Fire Weather Dry Thunder and Strong Wind Outlooks. **Fire Weather Forecast Tools** Fire Weather Composite Maps Forecast and observational maps for various fire weather variables based on the Eta and RUC models.

Keetch-Byram Drought Index



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School of Natural Resources
University of Nebraska-Lincoln









Fire Weather Outlooks from the Storm Prediction Center (Days 1-8)

N C E



Phillip Bothwell-Storm Prediction Center

February 9, 2012

WHERE AMERICA'S CLIMATE AND WEATHER SERVICES BEGIN

Fire is a natural force that shapes the ecosystem.

On average, wildfires burn about 5.5 million acres per year in the United States.

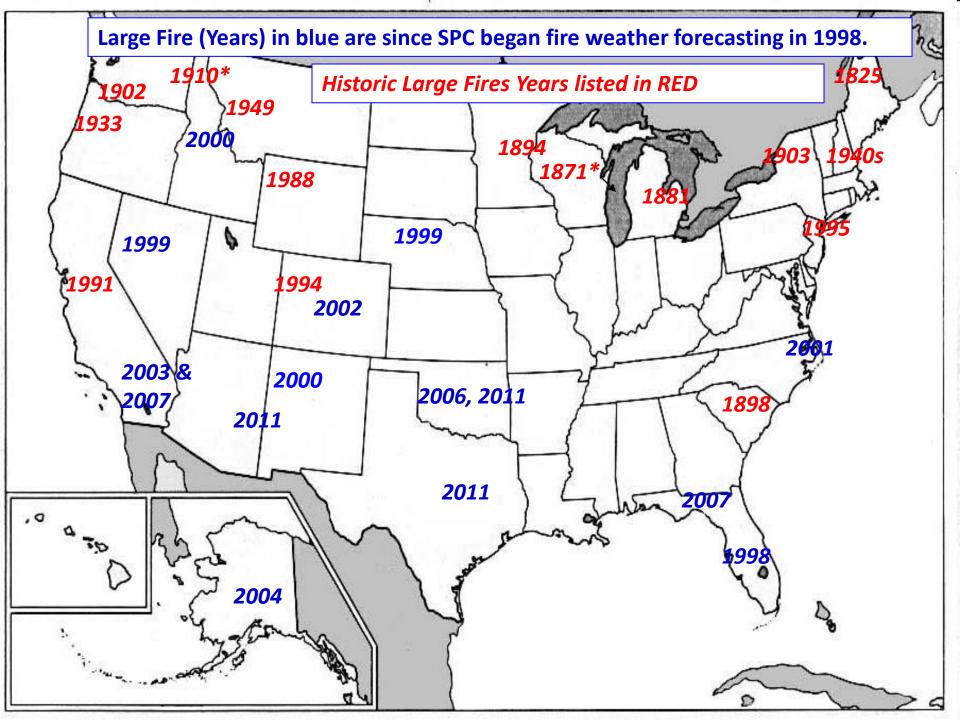
Smoke from these wildfires has the potential to affect the health of millions...far removed from the actual fire(s).

The damage and intensity of wildfires has increased for a number of reasons (excluding climate change).

- 1) Past fire-suppression policies that have created the accumulation of fuel, and excessive plant overgrowth in forests and woodlands. Insects and disease have increased in the forests... without fire.
- 2) Increasing residential development in already fire prone areas (houses are "fuel")

 The Wildland-Urban Interface (WUI)
- 3) Volatile fuel growth in already fire prone areas.

Fires can occur virtually anyplace in the U.S.

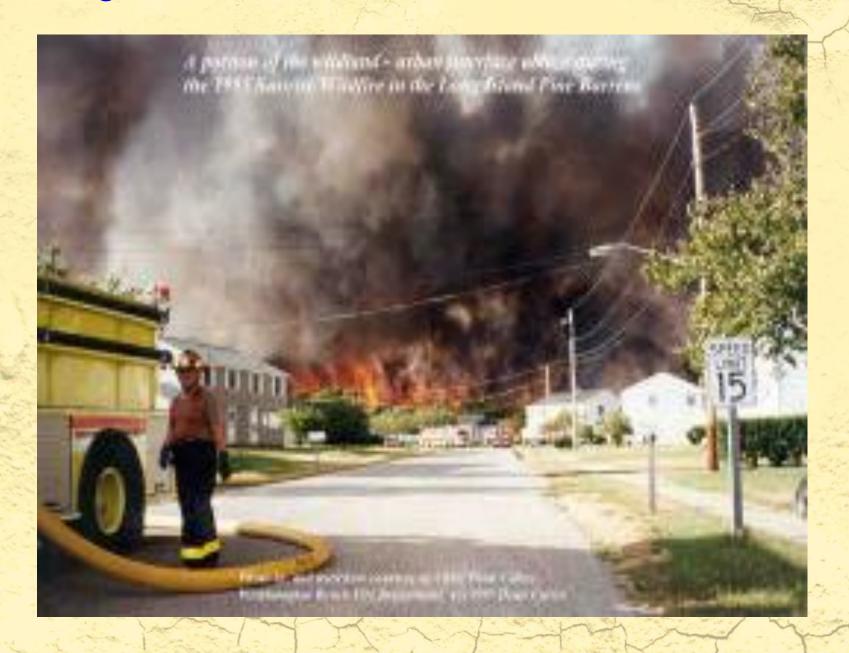


Two Large events prior to SPC issuing fire weather outlooks that helped to shape our program...

Oakland California fire 1991

The state of the s	
One of the largest losses of struct	ures/homes ever
recordedover 3000 (in one day)	and very large loss of
life (in recent decades)	
Deaths	25
Injuries	
Single Family Dwellings Destroyed	
Single Family Dwellings Damaged	
Apartment Units Destroyed	433
Total Living Units Damaged or Destroye	d3,469
Total Acreage Burned by the Fire	
Fire Perimeter	
Contract of the Contract of th	
Estimated Dollar Fire Loss	
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1995 Long Island Wildfires - Wildland Urban Interface area



How does the Storm Prediction Center (SPC) fit into the Fire Weather Picture and how/when/why did we get started?

History of SPC Fire Weather Outlooks

Imagine those first years at SELS/NSSFC (SPC) in the 1950s!

- 1996 Request from Fire Weather Modernization Team to SPC to provide national fire weather guidance. Confirmed in "Vision 2005" (following years of devastating fires across the nation)
- 1997 Initial development begins with June 1998 target date for experimental outlooks.
- 1998 June 1998 Initial experimental Day 1 and Day 2 outlooks (text and graphics on Web).
 Year end survey of Regions and WFOs.
- 1999 First full year of experimental outlooks. Risk Categories (1 to 5) introduced.
- 2000 Operational product on AWIPS (and Web) on May 17. Critical, extremely critical, and dry thunderstorm areas replaced the 5 "risk Categories", resulting in smaller and fewer areas issued less often.
- **2001** "See Text" added. Forecasters Fire Weather "Chat room". Verification efforts greatly expanded.
- 2005 addition of experimental Day 3 through 8 fire weather outlook graphic.
- 2006 addition of text to go with the Day 3-8 graphic
- 2007 June 12 Day 3-8 Fire Weather Outlook became official product
- 2010 Day 1 and Day 2 updates during day shift...Day 3-8 moved to day shift!
- 2011 SPC issues Experimental Probabilistic Fire Weather Dry Thunder and Strong Wind Outlooks.

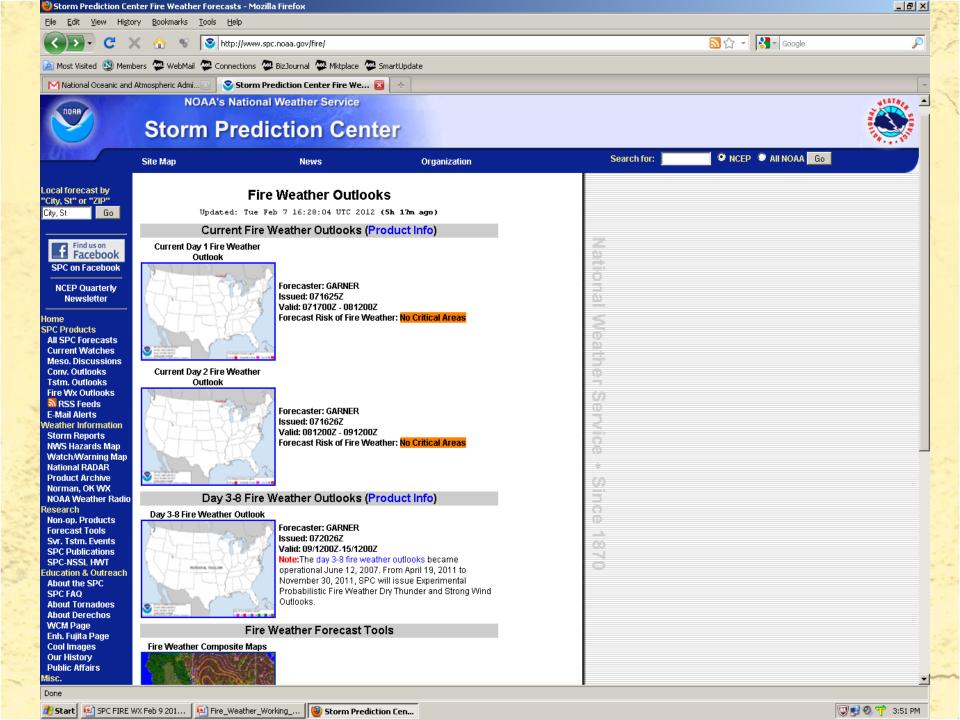
NWS FIRE WEATHER SERVICE

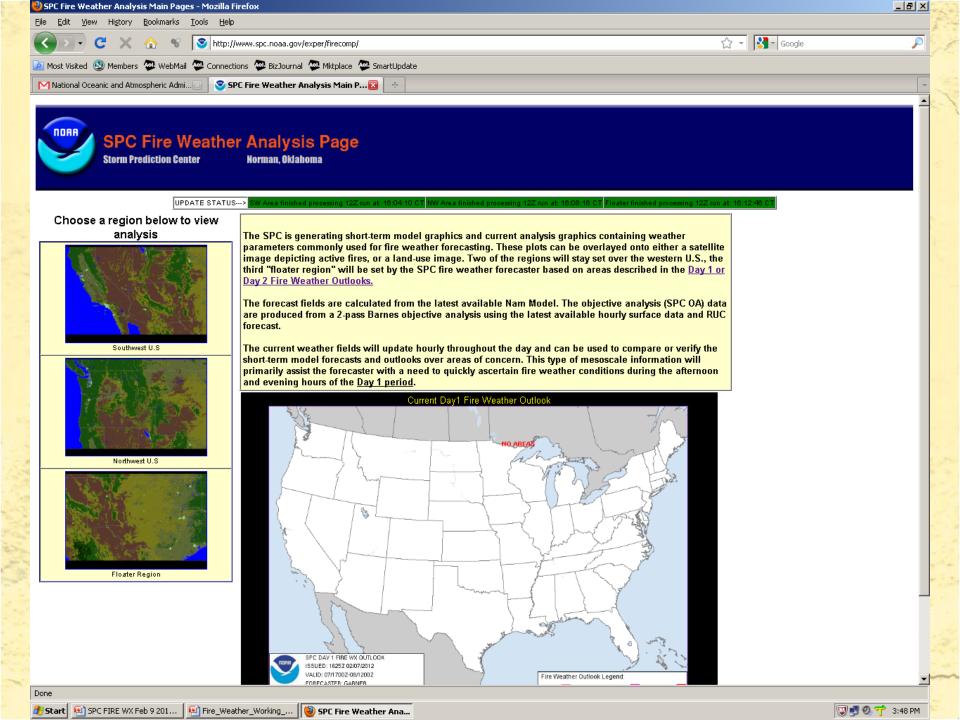
(FROM LARGE TIME/SPACE SCALES TO INDIVIDUAL FIRES)

- CPC Seasonal and Monthly Forecasts, 3 to 14 day Hazards
 Assessment, Weekly ENSO (El Niño-Southern Oscillation) and Drought Monitor, 6-10 day (and 8-14 day) temperature and precipitation Outlooks
- **HPC** Fronts/pressure systems (day 3-7)
- SPC 1 and 2 Day Fire Weather Outlooks <u>and</u> days 3 through 8 experimental
- WFOs Fire Weather Watches and Red Flag Warnings, Spot Forecasts
- IMETs Incident METeorologists Fire/Hazards Weather Forecasts for local fires

SPC Fire Weather Outlooks cover

- Dry...windy conditions
- Dry thunderstorms...storms with lightning but producing little or no precipitation (generally less than 0.10 inch)





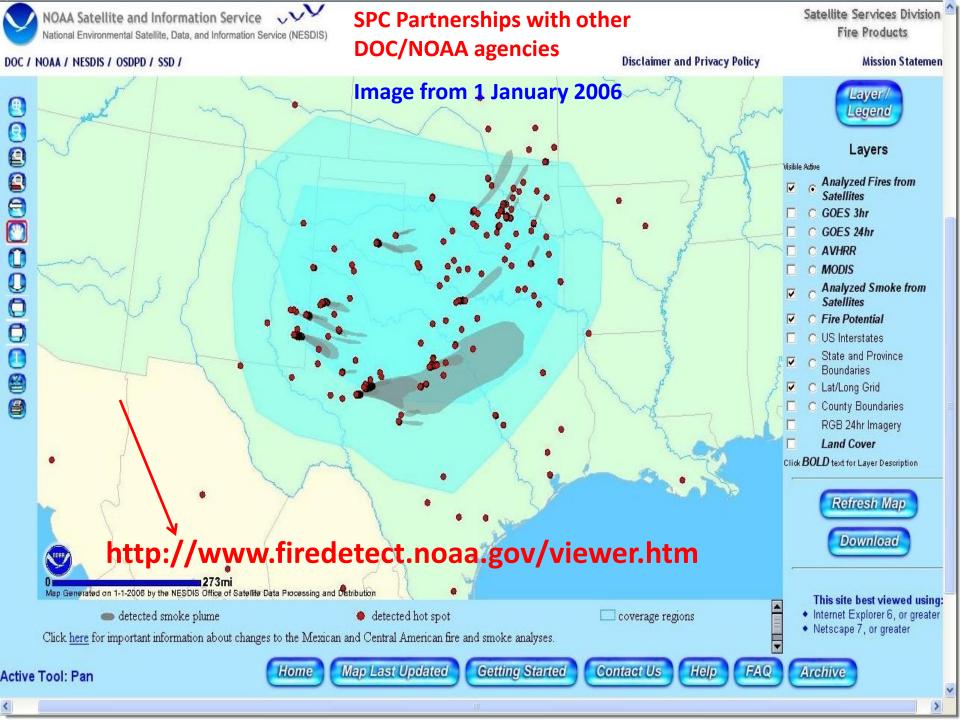
Fire Weather Outlook



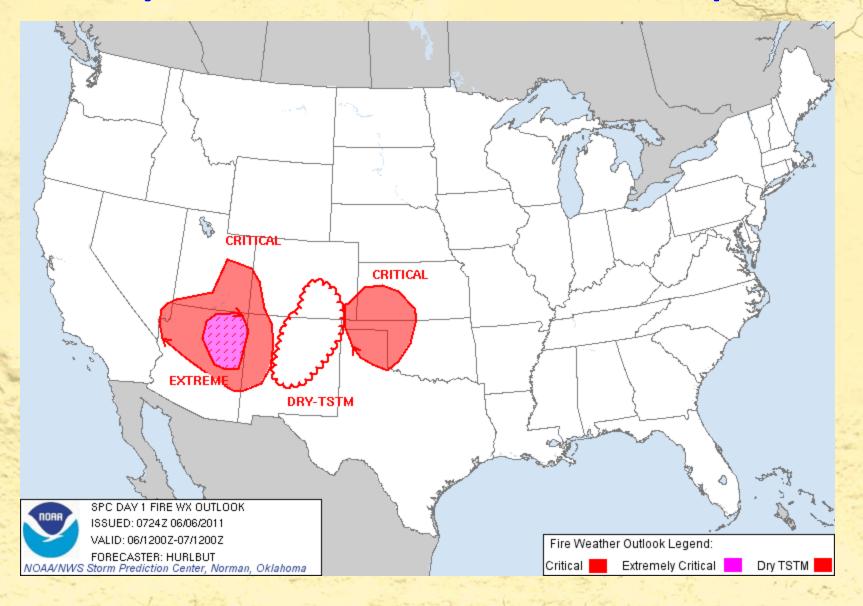
Fire behavior analyst, JOHN MCCOLGAN took this photo while on the Sula Complex fire just north of Sula, Montana, on August 6, 2000. John is a Bureau of Land Management employee for the Alaska Fire Service in Ft. Wainwright, Alaska.

- > Three Types of Areas
 - > Critical
 - > Extremely Critical
 - > Dry Thunderstorm
 - □ Also..."See Text" for marginal areas

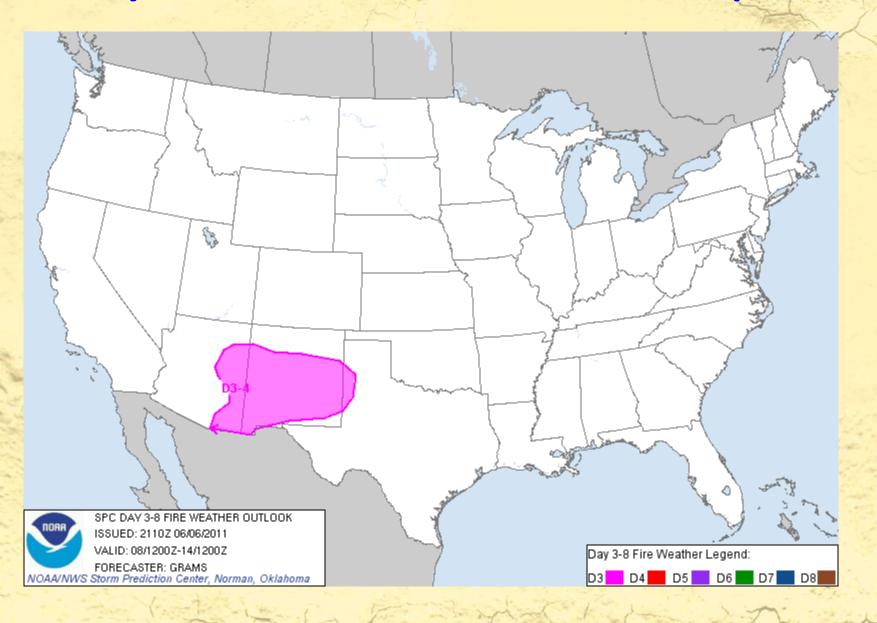




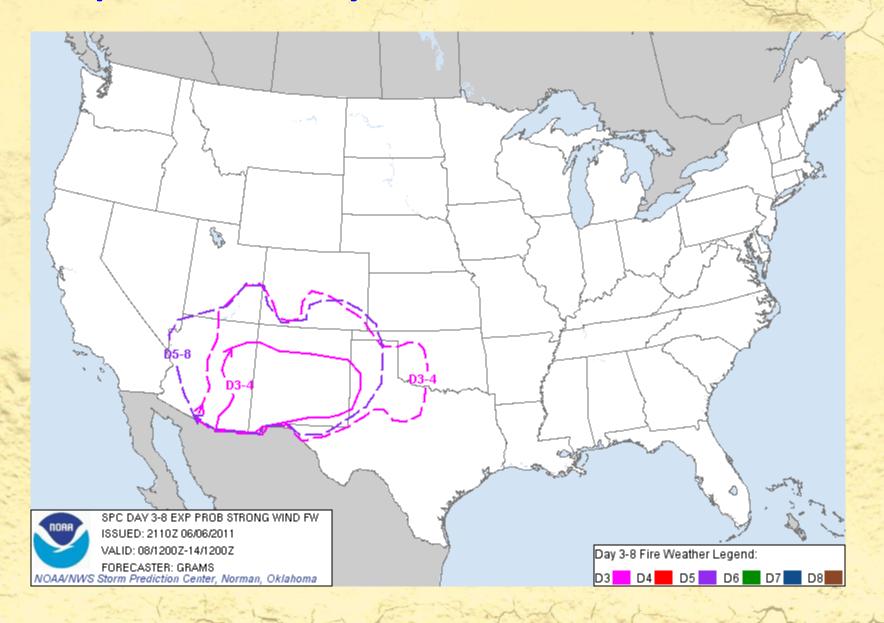
Day 1 Fire Weather Outlook - example



Day 3-8 Fire Weather Outlook - example



Experimental Day 3-8 Fire Weather Outlook



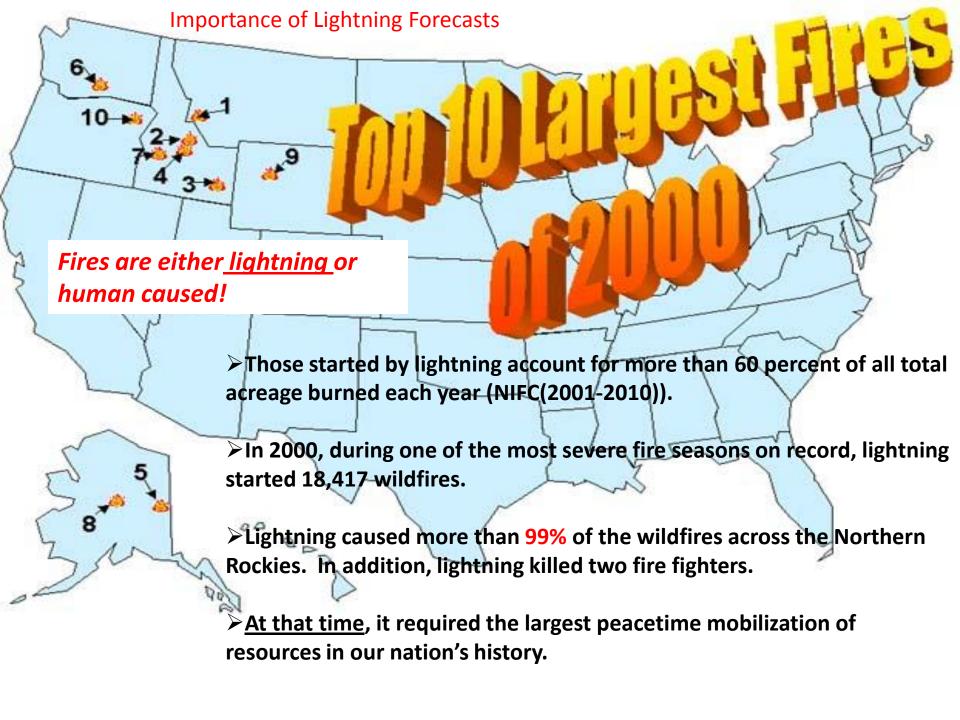
Wildland Fire Statistics

Nation-wide: 2001 to 2010 average

Lightning started wildfires are responsible for around 14.6% of all wildfires (from 10 to 20%)

Yet, lightning started wildfires are responsible for 61% of total acres burned (from 35 to 88%).





A Rare, but major dry thunderstorm event...Northern CA.

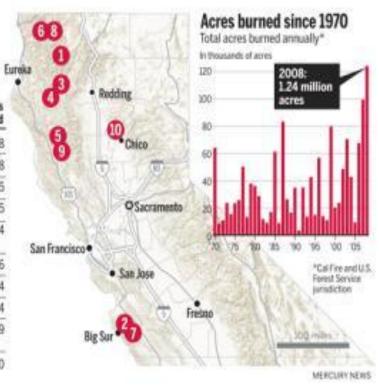
June 20-21 2008

Responsible for <u>90%</u> of acres burned.

2008 fire season

Through Nov. 5, wildland fires had burned more acres in California this year than in any year back to 1970, the first year that consistent, modern records were kept. But because of a June lightning storm and milder weather later in the summer, the 10 biggest fires all occurred in Northern California, and many were in rural, unpopulated areas.

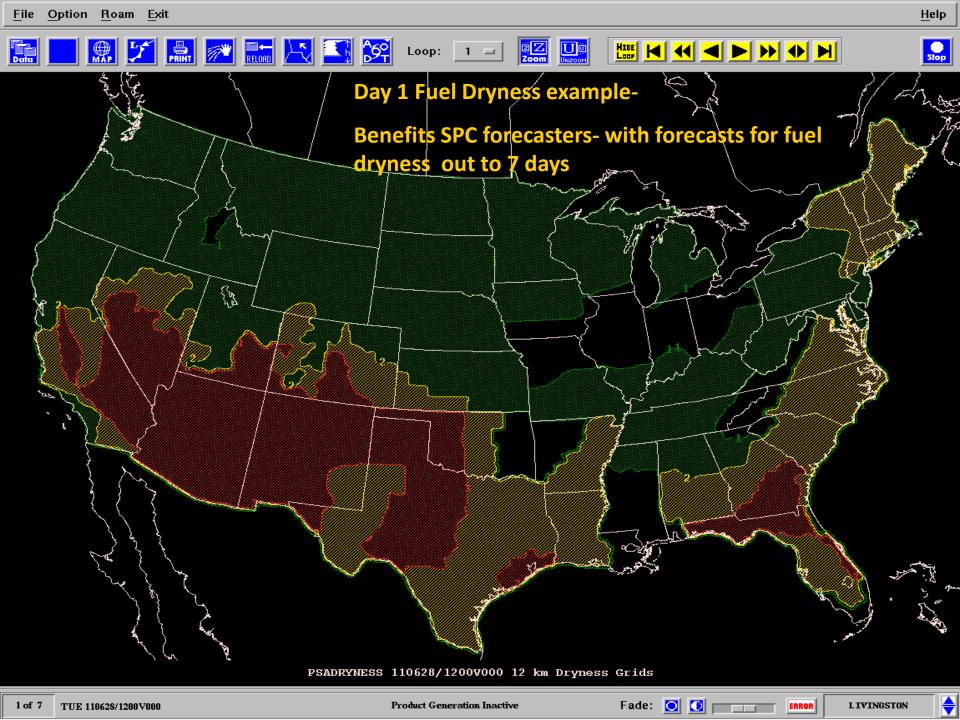
	Fire name	County	Start	Contained	Acres burned
0	Bear Wallow Complex	Siskiyou	June 21	Sept. 30	192,038
0	Basin Complex	Monterey	June 21	July 27	162.818
0	Iron Complex & Alps Con	nplex Trinity	June 21	Sept. 9	105,805
0	Lime Complex	Trinity	June 20	Aug. 15	98,715
Ö	Yolla Bolly Complex (merged with Lime Complex)	Mendocino/ Tehema	June 21	Aug. 20	89,994
0	Siskiyou / Blue 2 Comple	x Siskiyou	June 21	Sept. 30	82,186
0	Indians	Monterey	June 8	XJuly 10	76.554
Õ	Panther	Siskiyou	July 24	Xept. 30	72.344
9	Mendocino Lightning Complex	Mendocino	June 20	July 17	54.819
(i) Source	BTU Lightning Complex or Cal Fire and U.S. Forest 5	Butte	June 21	July 29	54.000

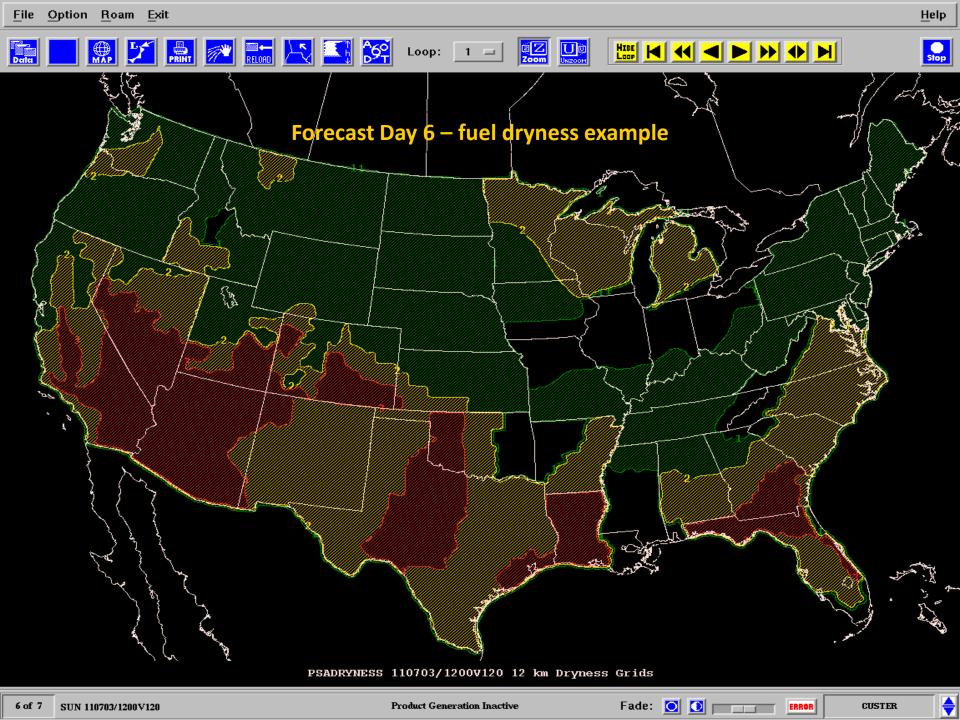


Source: Mercurynews.com

Data available at the SPC

- 1. METAR, RAWS, WIMS, and MESOWEST
- 2. Real-time and archived lightning data
- 3. Lightning Climatologies
- 4. Accumulated precipitation maps (ground & radar based)
- 5. National 2 and 4 km Radar images (precip accumulation)
- 6. Satellite images (bio-mass burning algoritm) of wildfires
- 7. 1 km resolution land use & high resolution terrain images.
- 8. Weekly Drought Monitor graphic.
- 9. All fire wx text forecasts, watches and warnings.
- 10. Model displays at 3-hour time resolution designed for fire weather forecasting (degrees F, RH (%), and wind (mph).
- 11. Short Range Ensemble Forecasts (SREF) and Perfect Prog Lightning Forecasts

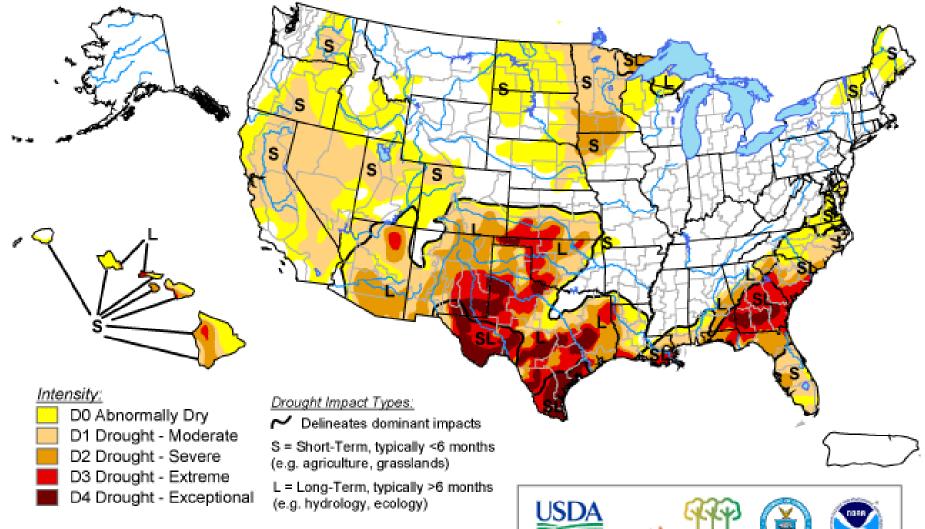




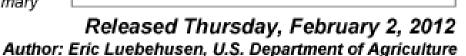
U.S. Drought Monitor

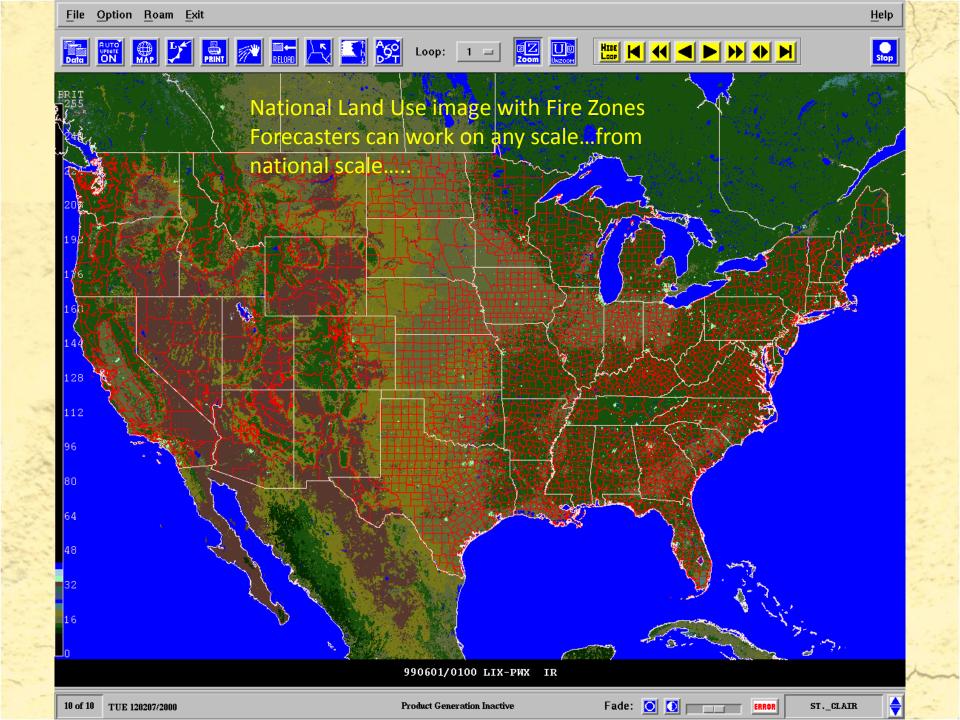
January 31, 2012

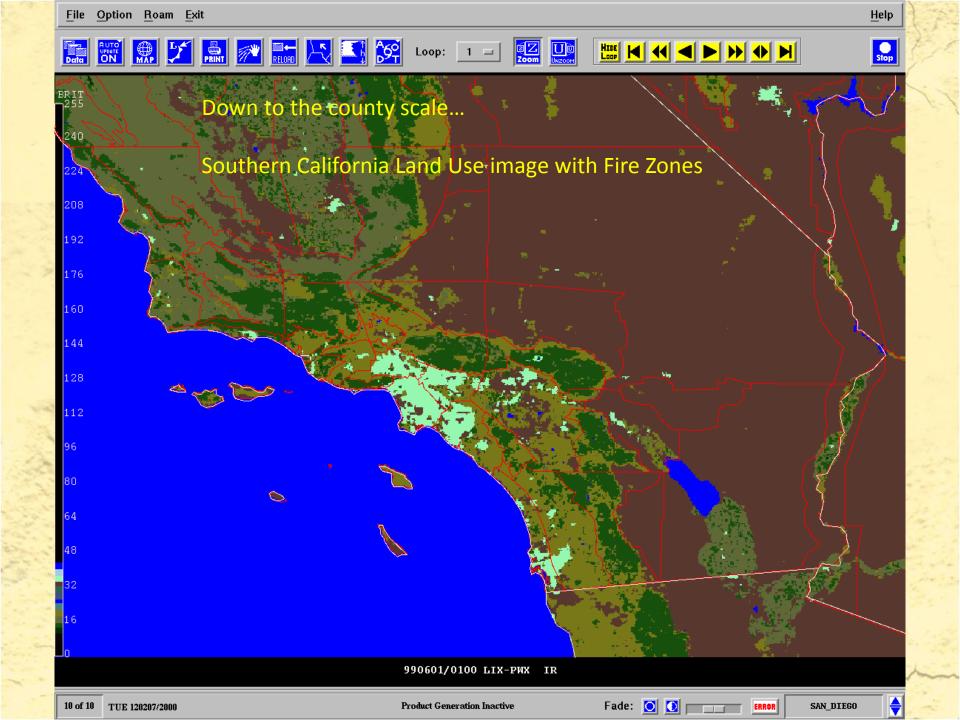
Valid 7 a.m. EST

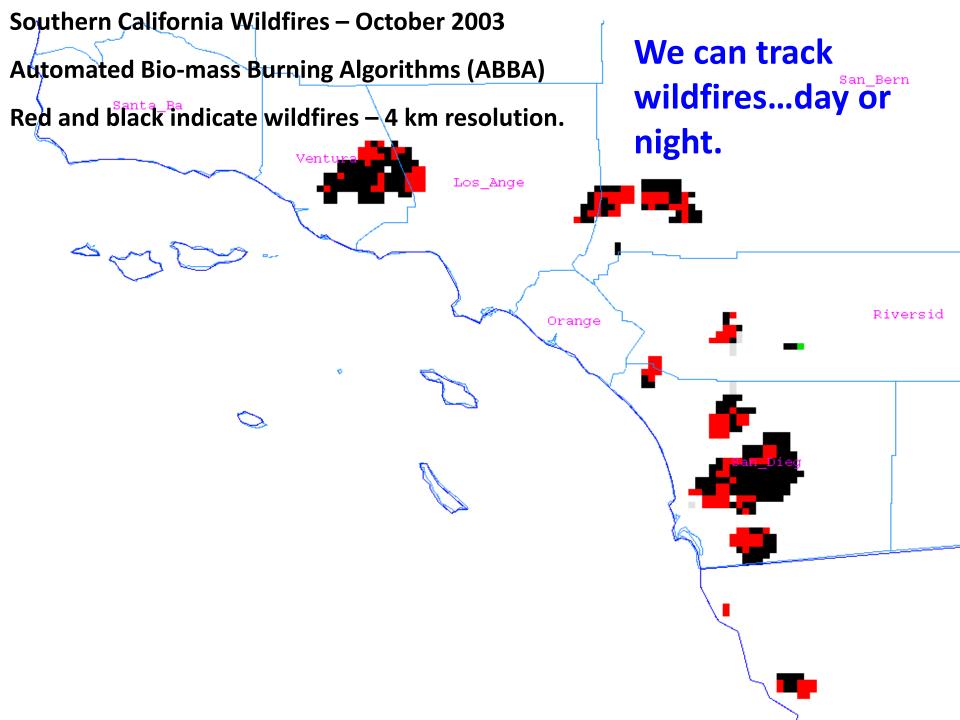


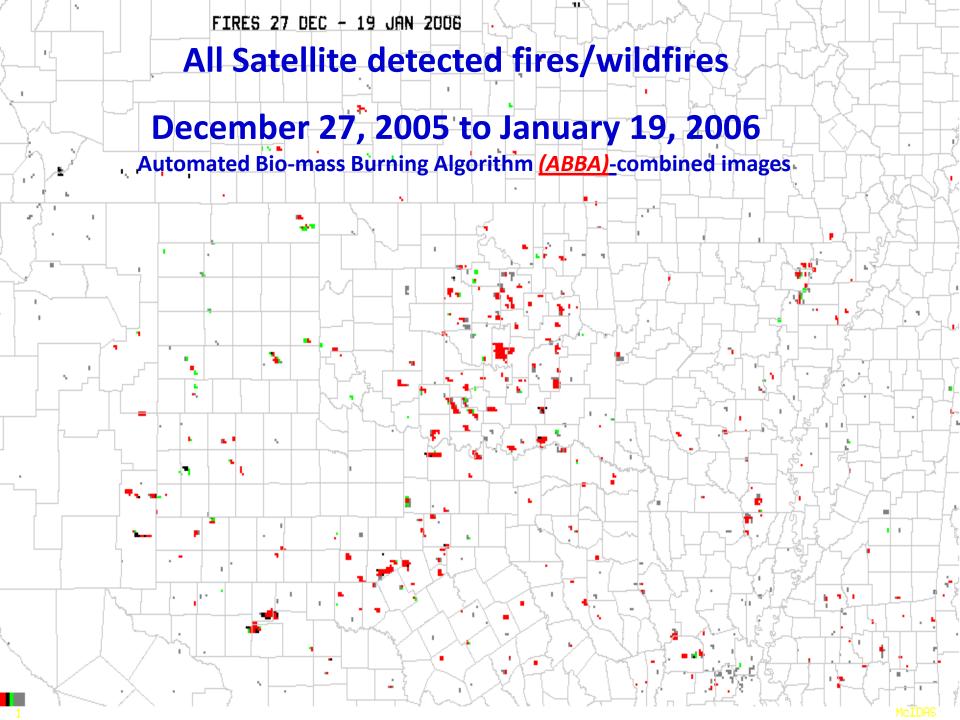
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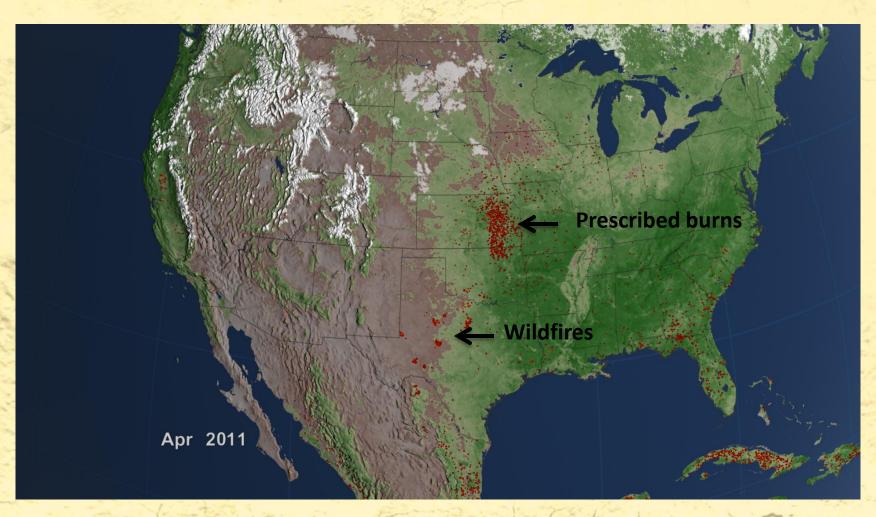






Satellite instruments observed large actively-burning wildfires in Texas this April. To the north, agricultural fires dot the landscape across Oklahoma and Kansas. The brightest fires, as observed by the MODIS (Moderate Resolution Imaging Spectroradiometer) instrument, are shown in orange and yellow. (Credit: NASA)

One way we can keep track of fires...



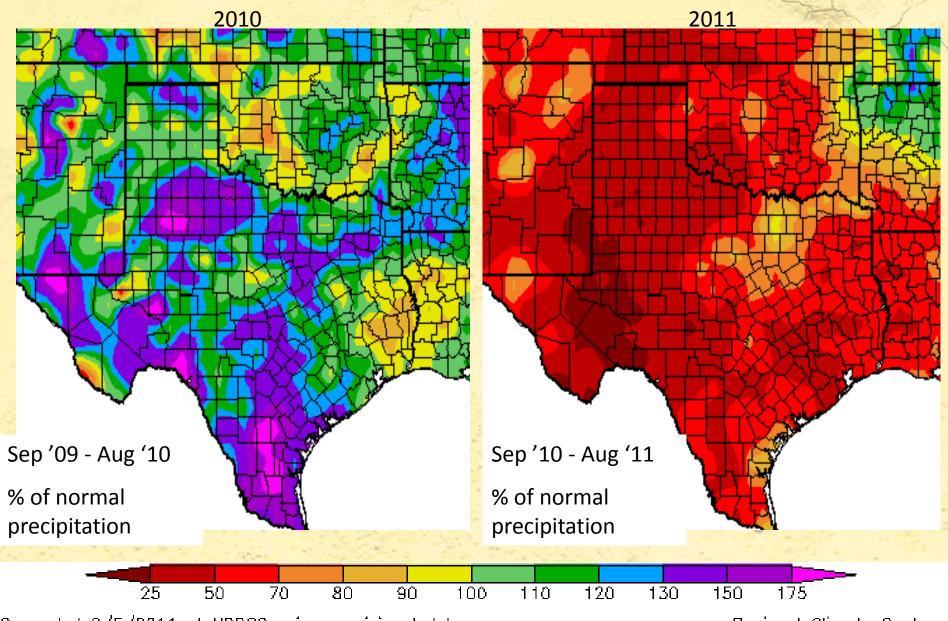


Texas Burning 2011*



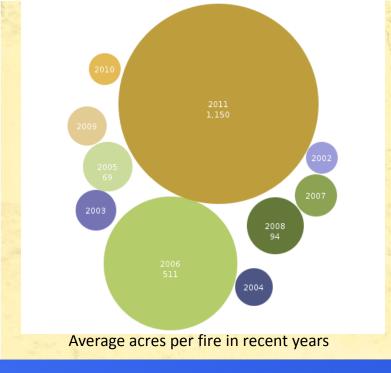
*Courtesy of Greg Carbin, WCM, SPC

A Study in Contrasts: 2010 vs. 2011



Generated 9/5/2011 at HPRCC using provisional data.

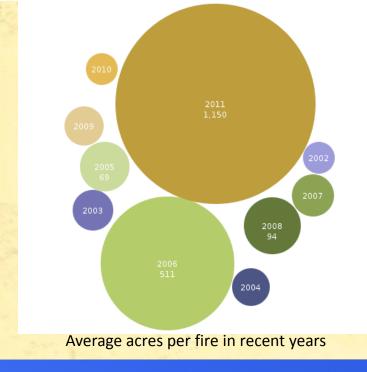
Regional Climate Centers

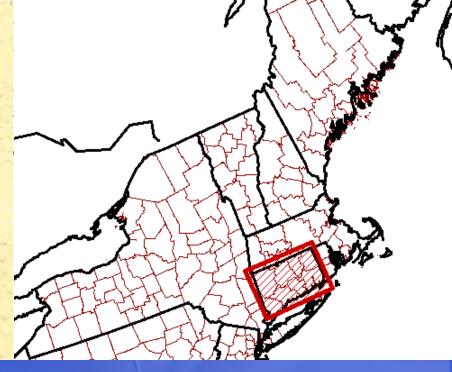




Texas Fires Account for 50% of U.S. Total 6 of 10 Largest Fires in TX History in '11







20,000 Fires Consume Area Size of CT Texas Fires Account for 50% of U.S. Total 6 of 10 Largest Fires in TX History in '11









Texas Wildfires

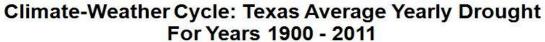
Brad Smith
Wildland Fire Analyst
Texas Forest Service

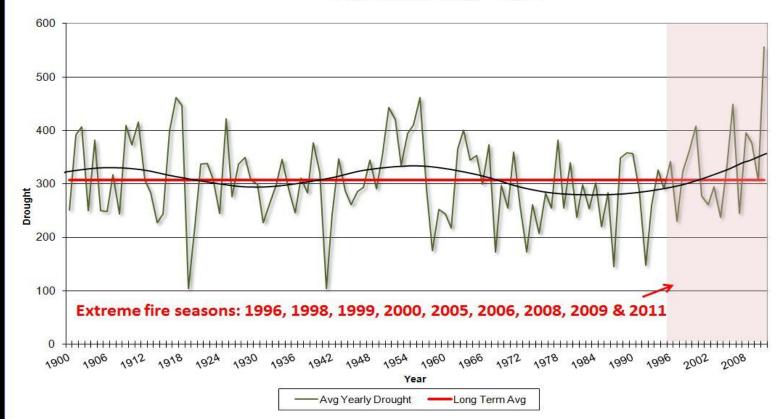






Statewide KBDI Average Since 1900









2011 Texas Wildfire Impacts

3300 fires burned 3 million acres and destroyed 2246 homes in 2011

April 6th-April 30th

318 fires 10%

1.5 MM Acres 53%

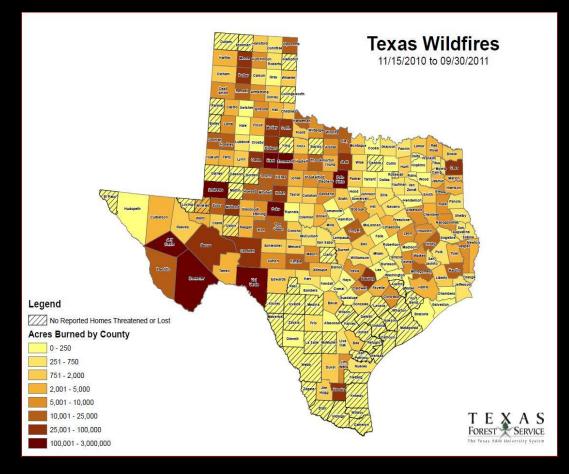
264 Homes 10%

August 30-Sept. 5th

160 Fires 5%

166M Acres 6%

1982 Homes 76%





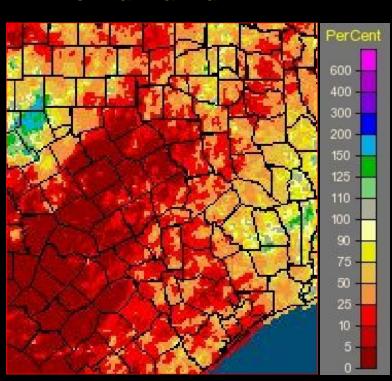




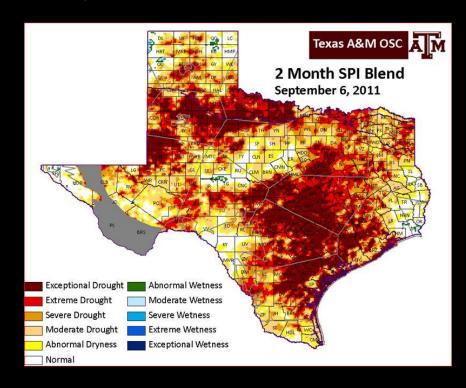
30 and 60-Day Dryness

September 6th 2011

30-Day Percent of Normal Rainfall



60-Day Standard Precipitation Index



http://atmo.tamu.edu/osc/drought/

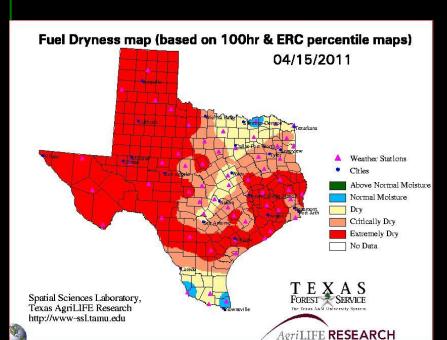




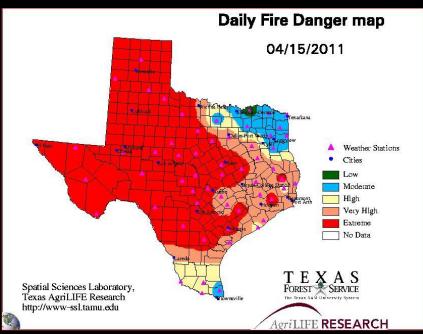


Fire Potential on April 15th 2011

Fuel Dryness is a cumulative measure of fuel conditions. Fuel Dryness has a 7 day memory



Fire Danger reflects a daily measure of the strength of the weather. Fire Danger resets each day

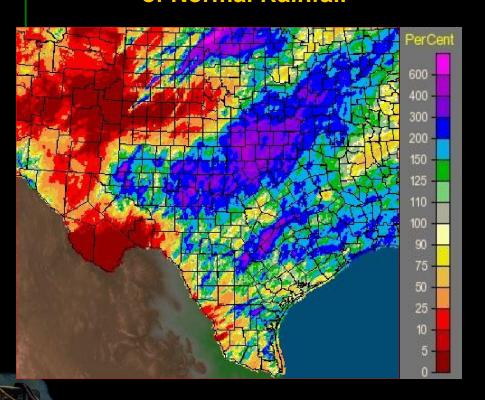




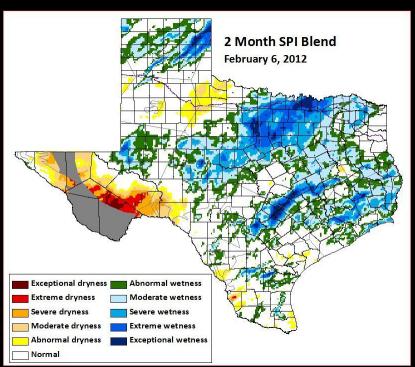


Current 30 and 60-Day Dryness

Current 30-Day Percent of Normal Rainfall



Current 60-Day Standard Precipitation Index (SPI)







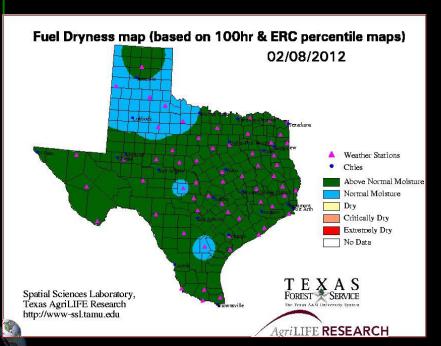


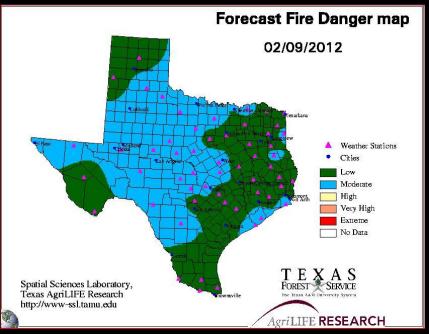
Current Fire Potential

http://ticc.tamu.edu/PredictiveServices/Preparedness.htm

Yesterday's Observed Fuel Dryness

Today's Forecast Fire Danger









2012 Wild Cards

Widespread Juniper Mortality

Below Normal Fine Fuel (Grass) Loading















John R. Weir

Natural Resource Ecology and Management
Oklahoma State University

Should I Burn?

- Goals and objectives
- What are you burning
- Burning entire property or pasture
- Consider patch burning
- •See OSU Ext. Pub. E-998

 Patch Burning: Integrating

 Fire and Grazing to

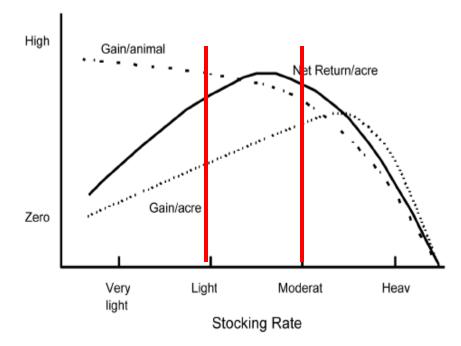
 Promote Heterogeneity



What if I don't have enough fuel to burn?

- •If fuel is an issue, don't burn
- Why do you not have fuel
- Adjust stocking rate
- •Should always be managing for a drought
- •See OSU Ext. Pub. NREM-2886 Stocking Rate Determination on Native Rangeland





Will fire kill native plants if I burn during the drought?

- Native Plants are adapted
- •Historically fire occurred before, during and after droughts
- •Time since fire and rainfall are the most important factors
- •See OSU Ext. Pub. NREM-2877 Fire Effects in Native Plant Communities





Should I wait to see if it rains before burning?

- •Knowing if it is going to rain would be nice...anytime
- •Wait to see if spring rains occur
- •Burn in May, June or July
- •See OSU Ext. Pub. NREM-2877 Fire Effects in Native Plant Communities





Is there more risk of the fire escaping burning in a drought?

- •There are still good burn days
- •Larger fuel types become dryer
- Cedar leaf moisture lower, more volatile
- •See OSU Ext. Pub. NREM-2878 Fire Prescriptions for Maintenance and Restoration of Native Plant Communities





Forecast based on 2012-02-08 06Z NAM; NEXT forecast update expected 10 am CST

http://okfire.mesonet.org/

About Us

Contacts

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WEATHER

FIRE

SMOKE

SATELLITE

RADAR

AIR QUALITY

BURN SITE

LINKS

 Marena
 Wed 2/08/12

 Weather
 8:30 am CST

 Temperature:
 31°F

 Wind Chill:
 26°F

Wind Chill: 26°F Relative Humidity: 96%

10-m Wind: NNW 6 mph 24-h Rainfall: 0.00"

24-n Raintali: 0.00

Dispersion: Moderately Poor

Fire Danger

8:00 am CST

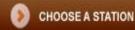
Current Fire Danger: LOW

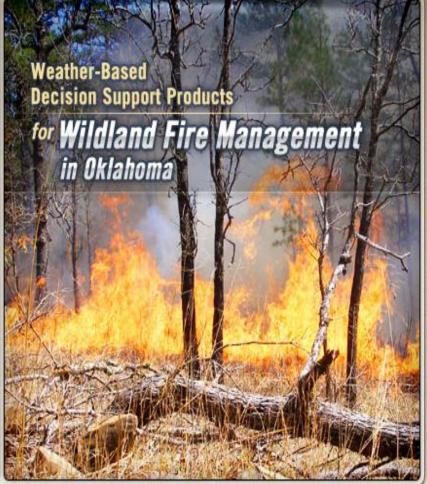
Burning Index: 9
Spread Component: 2
Ignition Component: 0%
NFDRS Fuel Model: R
1-hr Fuel Moisture: 21%
10-hr Fuel Moisture: 15%
KBDI: 40

Relative Greenness:

Sunrise: 7:25 am Sunset: 6:02 pm

23%







DOWNLOAD NOW



For more information nrem.okstate.edu/Extension

NREM EXTENSION

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NREM Home



Oklahoma Cooperative Extension Service fulfills Oklahoma State University's land-grant mission by providing people with information necessary to improve their quality of life. Specifically, NREM Extension enables stakeholders to understand natural resources in order to effectively manage resources on a sustainable basis, and to increase productivity and efficiency through landowner and manufacturer education.

Within the NREM Department, Extension offers expertise in the fields of aquaculture, forestry, range and wildlife science. NREM Extension personnel develop and maintain mutually beneficial collaborations with other universities, government agencies, non-government organizations and private entities to enhance educational opportunities and programs. Additionally, NREM Extension provides natural resource educational opportunities to youth through various programs designed to promote good stewardship of our natural resources and build the leaders of tomorrow.

NEWS & EVENTS

- Recurve Archery Contest Payne County Expo April 14, 2012
- Compound Archery Contest Payne County Expo April 21, 2012
- State Forestry Judging Contest Robbers Cave April 24, 2012
- State WHEP Contest Wichita Wildlife Refuge June 2, 2012
- National WHEP Contest July 22-26, 2012 Texas

Having Problems With Wildlife Damage?



Ready, Set, Go! & Firewise

Karen Stafford | Texas Forest Service | Staff Forester II







Firewise Communities

- A national program that acknowledges and encourages homeowners and communities who are proactive in addressing their wildfires issues in their neighborhoods.
- www.firewise.org
- Community Driven!



Firewise Requirements

- Contact Firewise Representative
- Conduct a hazard risk assessment
- Formation of a "Firewise Board"
- Create a Wildfire Protection Plan
- Complete at least one major project
- Observe a Firewise Day
- Invest \$2 per capita in Firewise projects
- Submit report to Firewise USA

Home Construction and Maintenance

Ignition Resistant construction materials and defensible space are what gives a home the best chance to survive a wildfire.



Get Ready With 30 Feet of Defensible Space

- It protects the home from igniting due to direct flame contact or radiant heat by separating the fuels/vegetation.
- It also gives firefighters the space they need to protect a home.

How to Create Defensible Space

- Remove any continuous fuels by thinning the vegetation.
- Remove any dead vegetation.
- Remove or prune vegetation next to windows.
- Choose plants that have a low flammability (high moisture content).



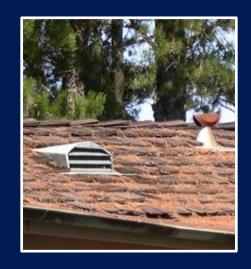
Roof and Eaves



Embers can gather under open eaves and ignite exposed wood. Use ignition-resistant materials to box in eaves.

Keep pine/leaf litter cleared off the roof and gutters.

The roof and soffits are the most vulnerable surfaces. Use fire-resistant materials for the roof like metal, tile, or composition shingles.



Walls & Windows

- Use non-combustible siding material such as stucco or masonry.
- Smaller, double-pane and tempered glass windows with a metal frame will withstand heat better.
- Combustible materials or landscape plants near windows can be ignited and generate enough heat to break windows.

Vents

Use 1/8"
 screening
 behind all
 vents.



Wooden Attachments

- Use non-combustible fencing for sections near the structure.
- Screen-in underneath the deck to keep leaf and pine litter from accumulating.





Window AC Units

And other weak links



Get Set – Act Immediately

- 1. Dress in appropriate clothing (cotton, leather boots, bandanas, gloves)
- 2. Remove flammable window shades and curtains
- 3. Shut off air conditioning
- 4. Leave your lights on
- 5. Back your car into your drive way
- 6. Monitor the conditions



Go! - Leave Early

- Evacuate Early.
 Don't wait to be told.
- Take your
 emergency supply
 kit and pets.



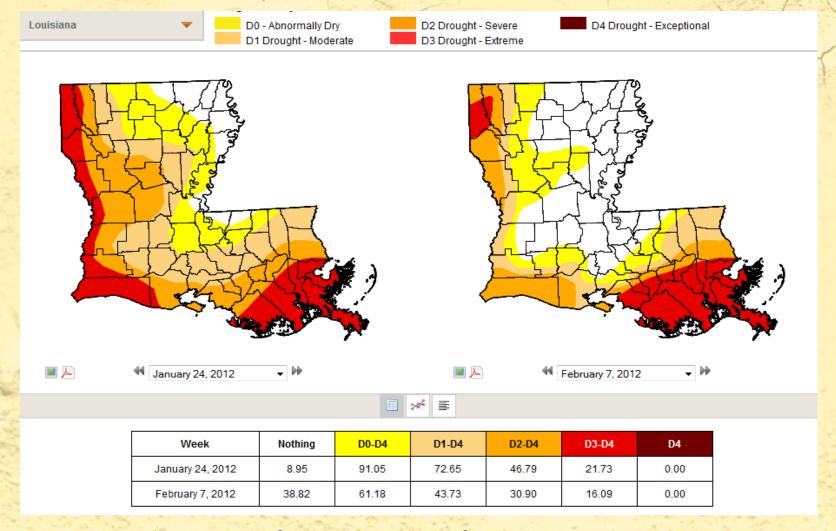


www.wildlandfireRSG.org

www.firewise.org

Wildfire awareness is as simple as Firewise & Ready, Set, Go!

- Ready Prepare your home now before a wildfire threatens. Firefighters need your help protecting your home.
- Set Have an evacuation plan and a "to go kit".
- Go If firefighters ask you to leave, please go knowing your home is prepared.



- Over past 2 weeks, LA went from 73% to 44% of State in Drought
- Heavy rains across Central LA; 3 sites over 14 inches in last 2 weeks; Clim Div 5 = 8.8"
- The culprit: several instances of Cyclogenesis in western Gulf Un-La Nina-like
- Rains keep missing extreme SE LA Climate Div 9 over last 17 days averaged 2.1" (DFN -1")

Resources

- U.S. Drought Portal
 - http://www.drought.gov
- Southern Plains Information & Past Webinars
 - http://www.drought.gov/portal/server.pt/community/southern_plains
- Drought Impact Reporter
 - http://droughtreporter.unl.edu/
- State Climatologists
 - http://www.stateclimate.org/
- National Drought Mitigation Center
 - http://drought.unl.edu/
- Southern Climate Impacts Planning Program (SCIPP)
 - http://www.southernclimate.org/
 - Youtube: http://www.youtube.com/user/SCIPP01
- Climate Assessment for the Southwest (CLIMAS)
 - http://www.climas.arizona.edu/



We are now on facebook!
Southern Climate Impacts Planning Program

Is drought properly classified in your region? If not, let us know!

- Drought Impact Reporter
- Contact your State Climatologist
- •E-mail the DM Authors: droughtmonitor@unl.edu